

<p>88-239210/34 A23 D16 MITR 12.01.87 MITSUBISHI RAYON KK *J6 3172-762-A 12.01.87-JP-004653 (16.07.88)/C081-47 Polyester resin compn. used in film fibre prodn. - has poly-beta-hydroxy butyrate added to crystalline solid. polyester resin C08-107225</p>	<p>A(3-C, 5-E1A2, 5-E2, 7-A3A) D(5-C)</p>
<p>The compn. is characterized in that poly-beta-hydroxybutyrate is added to crystalline solid. polyester resin.</p> <p>USE/ADVANTAGE</p> <p>The compn. is useful for preparing film, fibre, heat resistant bottle, tube, opener-tray etc. Through incorporating poly-beta-hydroxybutyrate, the compn. has high crystallization speed, that is pref. for preparing a prod. by fixing the shape or dimension through crystallizing the moulding after moulding with low temp. mould of plastic fabrication.</p> <p>EXAMPLE</p> <p>[Prepn. of poly-beta-hydroxybutyrate]. A culture liquid contg. 0.3 g of <i>Alcaligenes entrophus</i> were put in one litre of culture liquid contg. glucose 50 g/l ammonium nitrate 6 g/l potassium secondary phosphate 5 g/l</p>	<p>magnesium sulphate 0.5 g/l calcium chloride 0.11 g/l ferrous sulphate 0.012 g/l sodium molybdate 0.0025 g/l and sodium chloride 0.4 g/l and cultivated for 48 hrs. in mini-jar-femeter. Microorganism was isolated by centrifuge, washed with water and acetone, and then extracted by chloroform. The biomass was coagulated by adding n-hexane, and dried, so that 7.8g of poly-beta-hydroxybutyrate was obtd. It was optically active and had average mol. wt. of about 1,600,000.</p> <p>[Prepn. of resin compn.]. "Dianite MA-521" (RTM: poly-ethyleneterephthalate, intrinsic viscosity = 0.72) (100 pts. wt.) and poly-beta-hydroxybutyrate (4 pts. wt.) were dried up at 110 deg. C taking 12 hrs. or more, and then melt mixed using extruder at cylinder temp. of 235 deg. C. (5ppW19—Dwg No6/0).</p>

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